

**ABSTRACT**

The present invention provides a system for locating lost golf balls which includes a golf ball that incorporates an array of passive transponders and a radio frequency ("RF") transmitter/receiver capable of energizing the passive transponder array and of detecting a signal  
5 emitted by the array. Each passive transponder functions as a tuned LC circuit that is charged by the RF transponder/receiver and emits an RF signal, detectable by the RF transmitter/receiver, for a finite period of time after the RF transmitter/receiver is turned off.